

Electronic Patent Application Fee Transmittal

Application Number:	10549840			
Filing Date:	03-Apr-2006			
Title of Invention: Lifting Body For An Airship				
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Attorney Docket Number:	27793-00100USPX			

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U.S. National Stage under 35 USC 371 Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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Basic Filing:

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Extension-of-Time:

Extension - 2 months with \$0 paid	1252	1	490	490
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Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				490

DETAILED ACTION

This is in response to amendment filed on 7/1/10 in which claims 1-22 are pending. The applicant's amendments have been fully considered but they are moot based on the new ground of rejection.

Claim Rejections - 35 USC § 101

Claims 1-8, 14 and 19-22 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1, 14 and 19 are rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. Supreme Court precedent¹ and recent Federal Circuit decisions² indicate that a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. While the instant claim recites a series of steps or acts to be performed, the claim neither transforms underlying subject matter nor is positively tied to another statutory category that accomplishes the claimed method steps, and therefore does not qualify as a statutory process. For example the video **decoder** method including steps of combining is of sufficient breadth that it would be reasonably interpreted as a series of steps completely performed mentally, verbally or without a machine. **The Applicant has provided no explicit and deliberate definitions of "combining" to limit the steps to the electronic form of the "decoder," and the claim language itself is sufficiently broad to read on about**

¹ *Diamond v. Diehr*, 450 U.S. 175, 184 (1981); *Parker v. Flook*, 437 U.S. 584, 588 n.9 (1978); *Gottschalk v. Benson*, 409 U.S. 63, 70 (1972); *Cochrane v. Deener*, 94 U.S. 780, 787-88 (1876).

² *In re Bilski*, 88 USPQ2d 1385 (Fed. Cir. 2008).

§101, mentally stepping through the §101 analysis, recalling *In re Bilski*, and telling the person who had the question his or her opinion.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-12 and 14-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Alvarez U.S. Patent No 6,898,243 B1.

As per claims 1, 9, 14-15, 19 Alvarez teaches in a video decoder, a method, for decoding a hybrid intra-inter encoded block comprising: combining (see figs.3a , 3c element 303 and fig.4, 8b element 403 and col.6, lines 39-40 and col.7, lines 28-30 and col.9, lines 17-25) a first intra frames unit with a second inter frames unit is the same as the claimed a first prediction of a current block with a second prediction of a current block and wherein the first prediction of the current block is intra prediction and the second prediction of the current block is inter prediction (see fig.4 element 401 and 402 and col.7, lines 23-26).

As per claim 2, Alvarez inherently teaches , wherein decoding the block includes combining the first prediction and the second prediction and a third prediction of the current block (see fig.4).

As per claim 3, Alvarez inherently teaches further comprising reducing the filter strength of a deblocking filter adapted to increase the correlation between pixels adjacent to the current block (see abstract).

As per claims 4, 22 Alvarez inherently teach wherein the first prediction and the second prediction are combined by averaging the first prediction and the second prediction (see col.8, lines 26-31).

As per claims 5, 18 and 21 Alvarez inherently teaches, wherein the first prediction and the second prediction are combined by weighting each of the first prediction and the second prediction (see fig.8 and col.8, lines 26-31]).

As per claim 6, Alvarez inherently teaches wherein the current block is a 16 x 16 30 macroblock (see fig.2 element 42).

As per claim 7, Alvarez inherently teaches, wherein the current block is a sub-macroblock (see fig.8 col.8, lines 26-31).

As per claim 8, Alvarez inherently teaches wherein the current block is a 4 x 4 sub-macroblock partition (see fig.8 and col.8, lines 26-31).

As per claim 10, Alvarez inherently teaches, wherein the combining unit is adapted to combine the first intra prediction and the first inter prediction as to calculated the average of the predicted image A and B (see fig.8 and col.8, lines 26-31).

As per claim 11, Alvarez inherently teaches, wherein the hybrid intra-inter coded block is the average of the first intra prediction and the first inter prediction as to calculated the average of the predicted image A and B (see fig.8 and col.8, lines 26-31).

As per claim 12, Alvarez inherently teaches television comprising a video decoder as claimed in Claim 9 (see fig.1 element 133 and col.1, lines 34-35).

1. As per claim 13, Alvarez inherently teaches a video decoder adapted to decode a bitstream including bi-predictive intra-inter encoded blocks (see fig.1 element 133 and col.1, lines 34-35).

As per claim 16, Alvarez inherently teaches wherein the combining unit is a summing block as to calculate an absolute differential sum of both predicted images A and B (see fig.8 element 824 and col.8, lines 26-31).

As per claim 17, Alvarez inherently teaches wherein the combining unit combines the first intra prediction and the first inter prediction by average the two predictions as to calculate an absolute differential sum of both predicted images A and B (see fig.8 element 824 and col.8, lines 26-31).

As per claim 20, Alvarez inherently teaches wherein the step of combining is accomplished using a summing block as to calculate an absolute differential sum of both predicted images A and B (see fig.8 element 824 and col.8, lines 26-31).

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

3. Nonaka et al U.S. Pub No 20040160645.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272

3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM)

Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/10/2010

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